

1 61 121 181 241 301 361 421	cgagaaaaggtgacgcgggcccgggcaggcggcgcggcg	: : : !
457	cggcggcgagcgggggccATGCAGGCGCGCTACTCCGTGTCCAGCCCCAACTCCMETGlnAlaArgTyrSerValSerSerProAsnSer	12
511	CTGGGAGTGGTGCCCTACCTCGGCGGCGAGCAGAGCTACTACCGCGCGGCGCCC LeuGlyValValProTyrLeuGlyGlyGluGlnSerTyrTyrArgAlaAlaAla	30
565	GCGGCGGCCGGGGCGCTACACCGCCATGCCGGCCCCATGAGCGTGTACTCG AlaAlaAlaGlyGlyTyrThrAlaMETProAlaProMETSerValTyrSer	48
619	CACCCTGCGCACGCCGAGCAGTACCCGGGCGGCATGGCCCGCGCCTACGGGCCC HisProAlaHisAlaGluGlnTyrProGlyGlyMETAlaArgAlaTyrGlyPro	66
673	TACACGCCGCAGCCGAGCCCAAGGACATGGTGAAGCCGCCCTATAGCTACATC TyrThrProGlnProGlnProLysAspMETValLysProProTyrSerTyrIle	84
727	GCGCTCATCACCATGGCCATCCAGAACGCCCCGGACAAGAAGATCACCCTGAAC AlaLeuIleThrMETAlaIleGlnAsnAlaProAspLysLysIleThrLeuAsn	102
781	GGCATCTACCAGTTCATCATGGACCGCTTCCCCTTCTACCGGGACAACAAGCAG GlyIleTyrGlnPheIleMETAspArgPheProPheTyrArgAspAsnLysGln	120
835	GGCTGGCAGAACAGCATCCGCCACAACCTCTCGCTCAACGAGTGCTTCGTCAAG GlyTrpGlnAsnSerIleArgHisAsnLeuSerLeuAsnGluCysPheValLvs	138
889	GTGCCGCGCGACGACAAGAAGCCGGGCAAGGGCAGCTACTGGACGCTGGACCCG ValProArgAspAspLysLysProGlyLysGlySerTyrTrpThrLeuAspPro	15
943	GACTCCTACAACATGTTCGAGAACGGCAGCTTCCTGCGGCGGCGGCGCGCTTC AspSerTryAsnMETPheGluAsnGlySerPheLeuArgArgArgArgPhe	17
997	AAGAAGAAGGACGCGGTGAAGGACAAGGAGAGACAGGCTGCACCTCAAG LysLysLysAspAlaValLysAspLysGluGluLysAspArgLeuHisLeuLys	19:
1051	GAGCCGCCCCGCCCGGCCAGCCCCCGCCGCCGCCGCCGAGCAGC	21
1105	GGCAACGCGCCCGGTCCGCAGCCGCCCGTGCGCATCCAGGACATCAAGACC GlyAsnAlaProGlyProGlnProProValArgIleGlnAspIleLysThr	22
1159	GAGAACGGTACGTGCCCTCGCCGCCCCAGCCCTGTCCCCGGCCGCCGCCCTG GluAsnGlyThrCysProSerProProGlnProLeuSerProAlaAlaAlaLeu	24
1213	GGCAGCGGCAGCGCCGCCGCGGTGCCCAAGATCGAGAGCCCCGACAGCAGCAGC GlySerGlySerAlaAlaAlaValProLysIleGluSerProAspSerSerSer	26
1267	AGCAGCCTGTCCAGCGGGAGCAGCCCCCCGGGCAGCCTGCCGTCGGCGCGCCGCCGCGCCGCCGCGCCGCCGCC	28
1321	CTCAGCCTGGACGGTGCGGATTCCGCGCCGCCGCCGCCGCCGCCCCCCCC	30
1375	CCGCCGCACCATAGCCAGGGCTTCAGCGTGGACAACATCATGACGTCGCTGCGG ProProHisHisSerGlnGlyPheSerValAspAsnIleMETThrSerLeuArg	31
1429	GGGTCGCCGCAGAGCGCGGCGCGGAGCTCAGCTCCGGCCTTCTGGCCTCGGCG GlySerProGlnSerAlaAlaAlaGluLeuSerSerGlyLeuLeuAlaSerAla	33
1483	GCCGCGTCCTCGCGCGCGGGGATCGCACCCCCGCTGGCGCTCGGCGCCTACTCG AlaAlaSerSerArgAlaGlyIleAlaProProLeuAlaLeuGlyAlaTyrSer	35
1537	CCCGGCCAGAGCTCCCTCTACAGCTCCCCTGCAGCCAGACCTCCAGCGGGC ProGlyGlnSerSerLeuTyrSerSerProCysSerGlnThrSerSerAlaGly	37

Fig. 1A

1591	AGCTCGGGCGGCGGCGGCGCGCGGGGGCCCCGCGGGGGGGCGCG	390
1645	GGGACCTACCACTGCAACCTGCAAGCCATGAGCCTGTACGCGGCCGGC	408
1699	GGGGGCCACTTGCAGGGCGCGCCCGGGGGGGGGGGGGGG	426
1753	CCCCTGCCCGACTACTCTCTGCCTCCGGTCACCAGCAGCAGCTCGTCGTCCCTG ProLeuProAspTyrSerLeuProProValThrSerSerSerSerSerLeu	444
1807	AGTCACGGCGGCGGCGGCGGCGGCGGGGGGGGCCAGGAGGCCGGCCACCA	462
1861	CCTGCGGCCCACCAAGGCCGCCTCACCTCGTGGTACCTGAACCAGGCGGGCG	480
1915	GACCTGGGCCACTTGGCAAGCGCGGCGGCGGCGGCGGCGGCGGCGCAGGCTACCCG AspLeuGlyHisLeuAlaSerAlaAlaAlaAlaAlaAlaAlaAlaGlyTyrPro	498
1969	GGCCAGCAGCAGAACTTCCACTCGGTGCGGGAGATGTTCGAGTCACAGAGGATCGlyGlnGlnAsnPheHisSerValArgGluMETPheGluSerGlnArgIle	516
2023	GGCTTGAACAACTCTCCAGTGAACGGGAATAGTAGCTGTCAAATGGCCTTCCCT GlyLeuAsnAsnSerProValAsnGlyAsnSerSerCysGlnMETAlaPhePro	534
2077	TCCAGCCAGTCTCTGTACCGCACGTCCGGAGCTTTCGTCTACGACTGTAGCAAG SerSerGlnSerLeuTyrArgThrSerGlyAlaPheValTyrAspCysSerLys	552
2131	TTTTGAcacaccctcaaagccgaactaaatcgaaccccaaagcaggaaaagcta PheSTP	554
222365555555555555555555555555555555555	aaggaacccatcaaggcaaaatcgaaactaaaaaaaaaa	こさせも a a t a c a g g t g a t a t t a t c t a t c g

Fig. 1B

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FKHR	FKHL10 FKHL13	FKHL3	FKHL4	FKHL6	FKHL17	FKHL8	FKHL9	FKHL15	FKHL12	FKHL11	FKHL18	FKHL14	Mutations	FKHL7	Forkhead	
$ ext{WGNLSYADLITK.IESS.EKRLTLSQ.YEWMVKSVPYFKDKGDSNSSAKHSK.IR.QNEGTGKSSWWMLNPEGGKSGKSPRRAASMD}$	LMKLVRSAHGRLSQYVA.NNKS.ADKDKEDD TNPHATCM.ASKATSAKW.T.N.CYF.HADPTKIEKDEGF.RIQYAERLLS.AFKKLPFVHIH	· · · · · · · · · · · · · · · · · · ·	NGKYEFNMRQS.E.RLEKNYEKNYEKKKHYDDNMS.DDV.IG.TTGKLSTTSP	LRRPEVSS.S.RL.SELQAF.GAYKVI.L.KGLGRHI.A.EFRG.RR.C	LQS.KKRLSE.CESGYEKFPADIEPGNN	LQS.K.RLSE.CESGYEKFPAD	ARQPASLQS.H.RLSCASYRKFPDIEPGRNSA.QDDKQRNQ	TDL.IEAGRN.	AARTEASPRKTDEPGNN.	D	TTEPT		S M L	${f PKDMVKPPYSYIALITMAIQNAPDKKITLNGIYQFIMDRFPFYRDNKQGWQNSIRHNLSLNECFVKVPRDDKKPGKGSYWTLDPDSYNMFENGSFLRRRRRFKKKD$	SYTHASN.TRMLSELQ.Q.RSF.DITPDFHLGCYQKCDK	Helix 1Helix 2Helix 3Wing 1Wing 2

Fig. 2

	Embryo			AA819240 AA964464	ယ္ ယ္		Rat Rat	2 3	UI-R-AO-al-b-03 UI-R-E1-go-e-12
1					ω ·	,			mo83c06
•	Embryo, 11.5 dy				<u>س</u>	pSPORT1			vc85b07
<u>۔</u> ن ر	Embryo, 13.5-14.5 dy				<u>س</u>	pT7T3D	Mouse	403237	me94t07
い ご こ	Thymus, 4 wk			AA739434	ណី	pT7T3D	Mouse	1226133	vv53d11
	Embryo, 13.5-14.5 dy			W91182	<u>۔</u>	pT7T3D	Mouse	419796	mt72a07
	Embryo, 13.5-14.5 dy		W57082		<u>ω</u>		Mouse	372142	md53e12
	mmary Gland	936	AA458089		<u>ب</u>	pr7r3D	Mouse	864300	vg45c07
	mmary Gland, 4	,	AA759405	AA960591	ω -		Mouse	1248576	vw64c01
				AA673797	ທັ			1180061	vu08t03
	Kidney, 6 wk			AA276025	ω	pT7T3D	Mouse	776052	vc30a07
I	Aorta			D57248	<u>س</u>		Human		GEN-288A05
	NCI_CGAP_K1d3		AA886687		ω		Human	1500703	oj3910 4
				D56550	س -		Human		GEN-206f07
	NCI_CGAP_Pr22		AA688135		<u>س</u>		Human	1220412	nv16g07
	Placenta, 8 to 9 wk			N40582	ω <u> </u>	PT7T3D	Human	258167	yw76d12
	NCI_CGAP_Pr9			AA551599	<u>ب</u>		Human	996558	nj57a04
	Fetal Cochlea	475	N22552	N75774		pBlue SK-	Human	253733	yw30d03
	Embryo, 9 wk			AA334694	ယ္		Human		EST38957
	Fetal Heart			AA348051	ယ္		Human		EST54452
	Fetal Cochlea			н89575	<u>س</u>	pBlue SK-	Human	253556	yw28c11
	Placenta, 8 to 9 wk		N25867		<u>ب</u>		Human	258335	yw78b12
	NCI_CGAP_Lu5		AA902429		<u>ب</u>		Human	1521276	
	etal Heart			W94714	ω	i	Human	358885	ze13t07
	19	919	AA022755	AA022618	<u>ω</u>	pr7r3D	Human	364392	ze71a01
	etal Heart, 19		W73917		ω -		Human	346079	zd71b12
	NCI_CGAP_GC4		AA865139		<u>ω</u>		Human	1469849	oh48b09
	Wilms Tumor		AA776534		<u>س</u>		Human	1156628	ah14c11
	Fetal Heart, 19 wk			W77980	<u>ო</u>		Human	346077	zd71b11
	NCI_CGAP_Lu5		AA885880		<u>ო</u>		Human	1500423	oi36t08
	NhHMPu	722		AA495846	ယ္	pT7T3D	Human	768370	zw05a06
	Placenta, 8 to 9 wk		N25875		<u>س</u>		Human	258359	vw78d12
	Fetal Heart		W94629		<u>ب</u>		Human	358885	ze13t07
	Placenta, 8 to 9 wk			N40575	<u>ო</u>	pT7T3D	Human	258143	vw76b12
	NhHMPu		AA424466	AA424381	سِ		Human	767110	zv90g12
	NhHMPu		AA424787		ω		Human	768274	zw04a06
	NhHMPu		AA232201	AA232742	سِ		Human	666326	zr45a08
		6	ned retro	ned nettice	Ę	Aecrot	Marrie 610	NET	Manne
	Tiesup Contig	Insert			3			Image	Clone